

## CLAIMS

### WHAT IS CLAIMED IS:

- 5     **1.**     A foot inclination angle measuring method, comprising the steps of:  
            measuring the shape of a human foot in three dimensions;  
            based on three-dimensional data on the measured shape of the foot,  
            obtaining a two-dimensional cross section of the foot orienting in a front-rear  
            direction, which includes a cross section of a heel of the foot;  
10           obtaining a central line of the two-dimensional cross section in a right-left  
            direction; and  
            obtaining the angle of inward/outward inclination of the foot from the  
            angle of inclination of the central line.
- 15     **2.**     A shoe or shoe sock liner selecting method, comprising the steps of:  
            measuring the shape of a human foot in three dimensions;  
            based on three-dimensional data on the measured shape of the foot,  
            obtaining a two-dimensional cross section of the foot orienting in a front-rear  
            direction, which includes a cross section of a heel of the foot;  
20           obtaining a central line of the two-dimensional cross section in a right-left  
            direction;  
            obtaining the angle of inward/outward inclination of the foot from the  
            angle of inclination of the central line; and  
            based on the obtained foot inward/outward inclination angle, selecting a  
25     fitting shoe or shoe sock liner for correcting the inward/outward inclination of the  
            foot from among multiple types of previously prepared shoes or shoe sock liners.
- 30     **3.**     The shoe or shoe sock liner selecting method as set forth in claim 2,  
            comprising the steps of:  
            obtaining the rate of arch height of the foot from the three-dimensional  
            data on the measured shape of the foot; and

based on the obtained foot inward/outward inclination angle and the obtained foot arch height rate, selecting a fitting shoe or shoe sock liner for correcting the inward/outward inclination of the foot and for correcting the flatness of the foot.

5

4. The shoe or shoe sock liner selecting method as set forth in claim 2, comprising the steps of:

obtaining the angle of inward inclination of a first toe of the foot from the three-dimensional data on the measured shape of the foot; and

10

based on the obtained foot inward/outward inclination angle and the obtained first-toe inward inclination angle, selecting a fitting shoe or shoe sock liner for correcting the inward/outward inclination of the foot and for correcting hallux valgus of the foot.

15

5. A shoe or shoe sock liner manufacturing method, comprising the steps of:

measuring the shape of a human foot in three dimensions;

based on three-dimensional data on the measured shape of the foot,

obtaining a two-dimensional cross section of the foot orienting in a front-rear

20

direction, which includes a cross section of a heel of the human foot;

obtaining a central line of the two-dimensional cross section in a right-left direction;

obtaining the angle of inward/outward inclination of the foot from the angle of inclination of the central line;

25

obtaining the shape of a sole of the foot from the three-dimensional data on the measured shape of the foot; and

based on the obtained foot inward/outward inclination angle and the obtained foot sole shape, manufacturing a fitting shoe or shoe sock liner for correcting the inward/outward inclination of the foot.

30

6. The shoe or shoe sock liner manufacturing method as set forth in claim 5,

comprising the steps of:

obtaining the rate of arch height of the foot from the three-dimensional data on the measured shape of the foot; and

based on the obtained foot inward/outward inclination angle, the obtained foot sole shape, and the obtained foot arch height rate, manufacturing a fitting shoe or shoe sock liner for correcting the inward/outward inclination of the foot and for correcting the flatness of the foot.

7. The shoe or shoe sock liner manufacturing method as set forth in claim 5, comprising the steps of:

obtaining the angle of inward inclination of a first toe of the foot from the three-dimensional data on the measured shape of the foot; and

based on the obtained foot inward/outward inclination angle, the obtained foot sole shape, and the obtained first-toe inward inclination angle, manufacturing a fitting shoe or shoe sock liner for correcting the inward/outward inclination of the foot and for correcting hallux valgus of the foot.

8. A foot inclination angle measuring system comprising:

three-dimensional measuring means for measuring the shape of a human foot in three dimensions;

cross section recognizing means for recognizing, based on three-dimensional data on the measured shape of the foot by the three-dimensional measuring means, a two-dimensional cross section of the foot orienting in a front-rear direction, which includes a cross section of a heel of the foot; and

inclination angle calculating means for calculating the angle of inclination of a central line of the two-dimensional cross section of the foot in a right-left direction recognized by the cross section recognizing means.

\* \* \* \* \*